

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 10332118
PUBLICATION DATE : 15-12-98

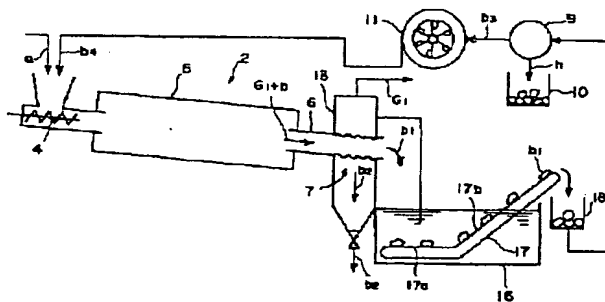
APPLICATION DATE : 29-05-97
APPLICATION NUMBER : 09140270

APPLICANT : MITSUI ENG & SHIPBUILD CO LTD;

INVENTOR : KIUCHI HIDEHIRO;

INT.CL. : F23G 5/14 B09B 3/00 F23G 5/027

TITLE : THERMALLY DECOMPOSING
METHOD FOR WASTE AND
THERMALLY DECOMPOSING
REACTOR



ABSTRACT : PROBLEM TO BE SOLVED: To feed waste in an uncrushed state, decompose thermally the waste in a good efficiency, and prevent the capacity of an apparatus from being made larger than required.

SOLUTION: Waste (a) is fed into an inlet of a thermally decomposing reactor 2 in an uncrushed state and, since a screen 7, which works as a sorting device for sorting thermally decomposed residues (b) into a thermally decomposed large-sized residues (b₁) and the remaining thermally decomposed residues (b₂), is provided at an outlet of the thermally decomposing reactor 2, such a trouble as to break or remarkably wear out a blade of a crusher does not occur whatsoever even in the case where the waste (a) first includes various things such as metal. Further, when the waste (a) is fed into the thermally decomposing reactor 2 in such a way without being crushed, many of thermally undecomposed large-sized residues (b₁) may be included in the thermally decomposed residues (b) discharged through the outlet of the reactor 2. However, such thermally undecomposed large-sized residues (b₁) are sorted by the screen 7 after being discharged from the thermally decomposing reactor 2, and are not directly fed into a cooling device, etc., located at the downstream of the thermally decomposing reactor 2. That is, troubles in a subsequent disposal step can be prevented.

COPYRIGHT: (C)1998,JPO